

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

December 09, 2013

WELL WORK PERMIT Re-Work

This permit, API Well Number: 47-3906347, issued to RAVEN RIDGE ENERGY, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martir

Chief

Operator's Well No: OSBORNE 1A

Farm Name: BODKINS, DANIEL & LAURA

API Well Number: 47-3906347

Permit Type: Re-Work
Date Issued: 12/09/2013

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. Pursuant to 35 CSR § 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR § 4-19.1.c, if the operator is unable to sample and analyze any water well or spring within one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. This permit is being conditioned to address the possibility of flooding in the area of this well. Any tanks stored on this location must be securely anchored in cement to prevent the loss of tanks should a flood occur. In addition, cages must be placed around the well head to prevent debris from damaging the well head.

WW - 2B (Rev. 8/10)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION. OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

| 1) Well Opera | tor: RAV | 'EN RID | GE ENERGY, LL | -C 494485865 | KANAWHA 3 | 9 BIG SANDY 1 | CLENDENIN 299 |
|--|--------------------------|-------------------------|------------------------------------|--------------------------------|-----------------------------|---------------------------------|------------------|
| | | | | Operator II | O County | District | Quadrangle |
| 2) Operator's | Well Num | ber: OS | BORNE 1A | ······ | 3) Elevation: | 980' | |
| 4) Well Type: | (a) Oil <u>X</u> | or G | as X | | | | |
| (| (b) If Gas | Prod | uction X_/ Un | derground St | orage | | |
| | | Dee | ep/ \$ | Shallow X | | | |
| 5) Proposed T 6) Proposed T 7) Approximate 8) Approximate | otal Deptl e fresh-wa | n: 2,500' ater strat | Feet a depths: 200' | Formation at | Proposed Ta Proposed Tot | rget Depth: 2,10 | 200' |
| 9) Approximate | e coal sea | am depth | s: NO COAL L | ISTED ON TI | TLE | | . . |
| 10) Approxima | te void de | epths,(co | al, Karst, other): | NONE | | | |
| 11) Does land | contain c | oal seam | ns tributary to act | tive mine? _t | VO | | |
| 12) Describe pro PERFORM A S | oposed we | ell work a | nd fracturing meth ATER FRAC ON | nods in detail (a NTHE WEIR | attach additiona | Il sheets if nee OF AN EXIST | ded) ING WELL |
| 13) | 25501510 | | SING AND TUE | | | 111.2 | 515- |
| TYPE S | SPECIFIC | | | FOOTAGE | INTERVALS | CEMEN | Ţ |
| | <u>Size</u> | <u>Grade</u> | Weight per ft | For Drilling | Left in Well | Fill -up (Cu. | <u>Ft.)</u> |
| Conductor | 13 3/8" | J55 | 42LBS | 40 | EXISTING | CTS | |
| Fresh Water | 9 5/8" | LS | 17LBS | 350' | EXISTING | CTS | |
| Coal | | | | | | | |
| Intermediate | 7" | J55 | 23LBS | 1,850' | EXISTING | CTS | |
| Production | 4 1/2" | J55 | 10.5LBS | 2250' | EXISTING | CTS | |
| Tubing | | | | | | | |
| Liners | | | | | | | |
| Packers: Kind Size Dept | · | | | | | | |

Peceived

| WW- | 2A |
|-------|-------|
| (Rev. | 6-07) |

1). Date: NOVEMBER 25, 2013

2.) Operator's Well Number State County Permit

3.) API Well No.: 47- 39 - 6347

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT

| 4) Surface Owr | ner(s) to be serve | d: | (a) Coal Ope | rator | |
|------------------------|---|---------------------|------------------------------|--------------------------|------------------------------|
| (a) Name | DANIEL AND LAURA | | Name | rator | |
| Address | P.O. BOX 847 | | Address | | |
| | CLENDENIN, WV 2504 | 15 | | | |
| (b) Name | | | (b) Coal Ov | vner(s) with Declarat | ion |
| Address | | | Name | mor(o) with Deciarat | 1011 |
| | | | Address | | |
| | | | | | |
| (c) Name | | | Name | | |
| Address | | | Address | | |
| | | | 7 1001000 | | |
| 6) Inspector | TERRY URBAN | 1/11 | (c) Coal Les | ssee with Declaration | 1 |
| Address | P.O. BOX 1207 | 1-1U | / Name | | |
| 1 | CLENDENIN, WV 2504 | 5 | Address | | |
| Telephone | (304) 549-5915 | | | | |
| | TO THE | PERSONS NA | MED ABOVE TA | KE NOTICE THAT: | |
| Included is the | lease or leases or | other continuing | contract or contract | ts by which I hold the | right to extract oil and gas |
| <u>UR</u> | | | | | - |
| Included is the | Information require | ed by Chapter 22 | 2, Article 6, Section | 8(d) of the Code of We | est Virginia (see page 2) |
| i certify (na | at as required und | er Chapter 22-6 | of the West Virgin | ia Code I have conver | d conjugate this settles - 1 |
| application, a locat | Personal Servi | ce (Affidavit atta | ents pages 1 throug ched) | h on the above na | amed parties by: |
| X | Certified Mail (| Postmarked pos | tal receipt attached | | |
| | Publication (No | tice of Publication | on attached) | | |
| I have read | d and understand C | hapter 22-6 and | 35 CSR 4, and I | agree to the terms ar | nd conditions of any permit |
| issued under this a | ppiication. | | | | |
| I certify un | der penalty of law | that I have pers | onally examined ar | nd am familiar with the | information submitted on |
| uns application for | m and all attachme | ents, and that ba | ised on my inquiry | of those individuals in | nmediately responsible for |
| obtaining the inform | that there are sign | it the information | is true, accurate a | nd complete. | |
| imprisonment. | that there are sign | inicant penalties | for submitting faise | e information, including | the possibility of fine and |
| mmm | AL SEAL | Well Operator | RAVEN RIDGE ENER | GY, LLC | 7 |
| NOTARY | PUBLIC 5 | Ву: | RYAN E. M. CUNNING | | |
| | EST VIRGINIA \$ E.N. BAYS | Its: | OFFICER | - | |
| | n Energy, LLC ue, Charleston, WV 25302 | Address | 3230 PENNSYLVANIA | | |
| My Commission Exp | ires February 10, 2015 | | CHARLESTON, WV 25 | 302 | |
| Cubacilia da da d | | Telephone | (304) 344-9291 | | |
| Subscribed and swi | orn before me this | 25 day of | NOVEMBER | , 2013 | |
| Jahren a | 160 | | | N. 1 | |
| My Commission Ex | pires 2/10/2015 | | | Notary Public | |
| Oil and Gas Privacy No | | | | | |

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at



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| r~ | or PO Box No. V.C. | 100 4 400 PM |
| | PS Form \$600, August | 2006 See Hyverse for institutel on |

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Office of Oil and Gas

Office of Oil and Gas

WW Dept. of Environmental Protection

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

| Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page |
|-----------------------|------------------------|------------|-----------|
| ALVIN ENGELKE, AGENT | CUNNINGHAM ENERGY, LLC | 1/2 OF 1/8 | 260/431 |
| LINDA OSBORNE | CUNNINGHAM ENERGY, LLC | 1/2 OF 1/8 | 260/775 |
| EMMA JEAN LADD | CUNNINGHAM ENERGY, LLC | 1/2 OF 1/8 | 260/80 |
| | SEE ATTACHED AGREEMENT | | |

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application he reby a cknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- · U.S. Army Corps of Engineers
- · U.S. Fish and Wildlife Service
- · County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be ac quired from the appr opriate aut hority before the affected activity is initiated.

Well Operator: By:Its: RAVEN RIDGE ENERGY, LLC RYAN E. M. CUNNINGHAM OFFICER

Received

NOV 25

Office of Oil and Gas
WV Dept. of Environment after the maction

AGREEMENT

This agreement is made and entered into this 16th day of February, 2012 by and between Cunningham Energy, LLC, a West Virginia limited liability company and Raven Ridge Energy, LLC, a West Virginia ilmited liability company.

This agreement gives permission to Raven Ridge Energy to operate any leases (owned property or otherwise leased) maintained by Cunningham Energy, LLC for any and all past, current or future projects to be developed by or for Cunningham Energy, LLC.

CUNNINGHAM ENERGY, LLC

RAVEN RIDGE ENERGY

Owner

State of West Virginia County of Kanawha

The foregoing instrument was acknowledged before me this 16th day of February, 2012 by Ryan E. M. Cunningham, Officer of Raven Ridge Energy, LLC., a West Virginia Limited Liability Company, on behalf of the company.

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Notary Public

Alph 2015
My Commission Expires

State of West Virginia County of Kanawha

The foregoing instrument was acknowledged before me this 16th day of February, 2012 by Ryan E. M. Cunningham, Owner of Cunningham Energy, LLC., a West Virginia Limited Liability Company, on behalf of the company.

AUDITABLE STATES

Notary Piblic

My Commission Expires

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| WW-9 |
|--------|
| (5/13) |

| | Page | _ of |
|-------------------|------------------|------|
| API Number 47 -39 | -6347 | |
| Operator's Wel | I No. OSBORNE 1A | |

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

| Operator Name RAVEN RIDGE ENERGY, LLC OP Code 49445865 |
|---|
| Watershed (HUC 10) SAND BRANCH OF BIG SANDY CREEK Quadrangle CLENDENIN |
| Elevation 980' County KANAWHA District BIG SANDY |
| Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No _X |
| Will a synthetic liner be used in the pit? Yes No If so, what ml.? Proposed Disposal Method For Treated Pit Wastes: |
| Land Application Underground Injection (UIC Permit Number VIKING WELL SERVICE WILL DISPOSE Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain |
| Will closed loop system be used? NO |
| Drilling medium anticipated for this well? Air, freshwater, oil based, etc. N/A |
| -If oil based, what type? Synthetic, petroleum, etc |
| Additives to be used in drilling medium? N/A |
| Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A |
| -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) |
| -Landfill or offsite name/permit number? |
| I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penaltics for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Company Official Title OFFICER |
| Company Official Title Office (Company) |
| Subscribed and sworn before me this 25TH day of NOVEMBER , 20 13 Notary Process Notary Process AND ANIELLE N. BAYS |
| My commission expires 02/10/2015 DANIELLE N. BAYS Currency Berry, UC 3200 Personanta Avenus, Outroom, WY 25002 My Commission Expires Forces (10, 2015 |

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| Proposed Revegetation Treatm | ent: Acres Disturbed 1.5 | Prevegetation pH | |
|---|---|----------------------------|----------|
| | Tons/acre or to correct to | | |
| F: 11 . (10.00.00 | 1/3 | | |
| Fertilizer (10-20-20 o | r equivalent) | lbs/acre (500 lbs minimum) | |
| Mulch_HAY 2 | Top | s/acre | |
| | S | eed Mixtures | |
| Area | | Area I | Ī |
| Sced Type | lbs/acre | Seed Type | Ibs/acre |
| KY 31 | 40 | ORCHARD GRASS | 15 |
| ALSIKE CLOVER | 5 | ALSIKE CLOVER | 5 |
| | | | |
| ANNUAL RYE | 15 | | |
| Altach: Drawing(s) of road, location,pit | and proposed area for land a | oplication. | |
| Attach: Drawing(s) of road, location,pit Photocopied section of involved | and proposed area for land and 17.5' topographic sheet. | | |
| lan Approved by: | and proposed area for land and 17.5' topographic sheet. | | |
| Attach: Drawing(s) of road, location,pit Photocopicd section of involved | and proposed area for land and 17.5' topographic sheet. | | |
| Altach: Drawing(s) of road, location,pit Photocopied section of involved Plan Approved by: | and proposed area for land and 17.5' topographic sheet. | | |
| Altach: Drawing(s) of road, location,pit Photocopied section of involved | and proposed area for land and 17.5' topographic sheet. | | |
| Altach: Drawing(s) of road, location,pit Photocopied section of involved Plan Approved by: | and proposed area for land and 17.5' topographic sheet. | | |
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| Altach: Drawing(s) of road, location,pit Photocopied section of involved | and proposed area for land and 17.5' topographic sheet. | | |

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RAVEN RIDGE ENERGY, LLC. Form W-9 Osborne #1A Page 1 of 3 375' -/- @ 4% to 5% Specing 170' to 125's 250' +/- @ 16% to 18% Specing 55' to 50' \ Spocing 65, 10 60 15% 50' -/- @ 13% to 15% Specing 65' to 60' 475' +/- @ 18% to 20% Spacing 50' to 45' 175' +/- @ 14% to 16% Specing 60' to 55' 125' +/- @ 6% to 8% "Spacing 125" to 100" 200' +/- @ 11% to 13% Specing 75' to 65' 150' +/- @ 2% to 4% Spacing 250' to 170' 400' +/- @ 14% to 16% Spacina 60' to 55' i 250' +/- @ 4% to 6% Specing 170' to 125' Cromwell #2 (47-039-04907) ROSS, INC. Install Minimum 12" Culvent ET AL 66.69 **ACRES±** See Page 2 HUPP Surveying & Mapping Drafted BY: Date Drafted Job Number P.O. BOX 647 CRANISME E. VIA 26147

113

Per (304) 554 7035 Fr. VALL INDVANTAGE OF

11/11/17

was ameg

RAVEN RIDGE ENERGY, LLC. Osborne #1A

Rood is Existing To Here. Begin New Construction. ROSS, INC., ET AL 66.69 ACRES± MAP 12 PARCEL 68 See Page 1 Cromwell #2 (47-039-04907)

Proposed
Osborne #1A

BODKINS MAP 19 PARCEL 39

Proposed Crum #1A

Form W-9

Surface & Lease Boundary

Proposed Crum #2A

HUPP Surveying & Mapping

125' -/- @ 10% to 12% Specing 30' to 70'

PIOL BOX 647 CRANTSVOLS, NV 26147 Philosophy State - 1230 - 1240 - 1200 Street Green and Draftec BY:

'200' -/- @ 4% to 6% -Specing 1/0' to 125'

BODKINS MAP 12E PARCEL I

Job Number:

NOV

of Oil and Gaş

Spocing 170' to 125' 350' +/- @ 18% to 20% -- Spacing 50' to 45' NORTH

125' +/- @ 2% to 4% "Spacing 250" to 170"

200' +/- @ 4% 16 6%

Page 2 of 2

75' +/-- @ 8% to 10% - Specing 100' to 80'

950 +/- @ 2% to 4%

Specing 250' to 170'

-Surface & Lease Roundary

Date Drafted:

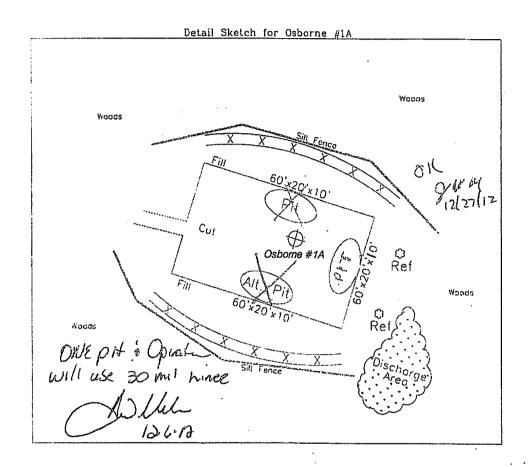
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Form W-9

RAVEN RIDGE ENERGY, LLC. Osborne #1A



Install Minimum 12° Culvert

THE STATE OF STATE OF

HUPP Surveying & Mapping

Drafted BY:

Date Drafted:

Job Number:

F.O. BOX 647 GRANTSVILLE, WV 26147

11/15/12

V20122143

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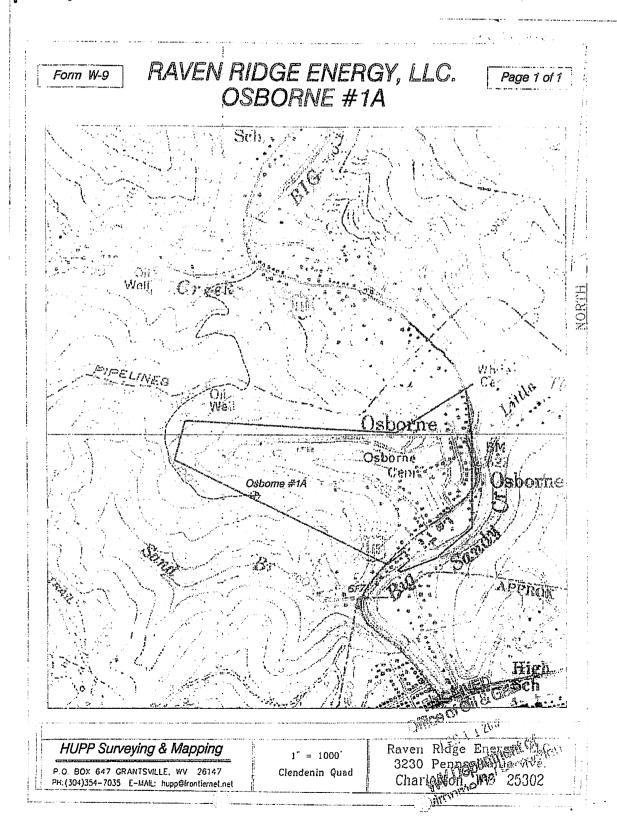
NOV 25 2013

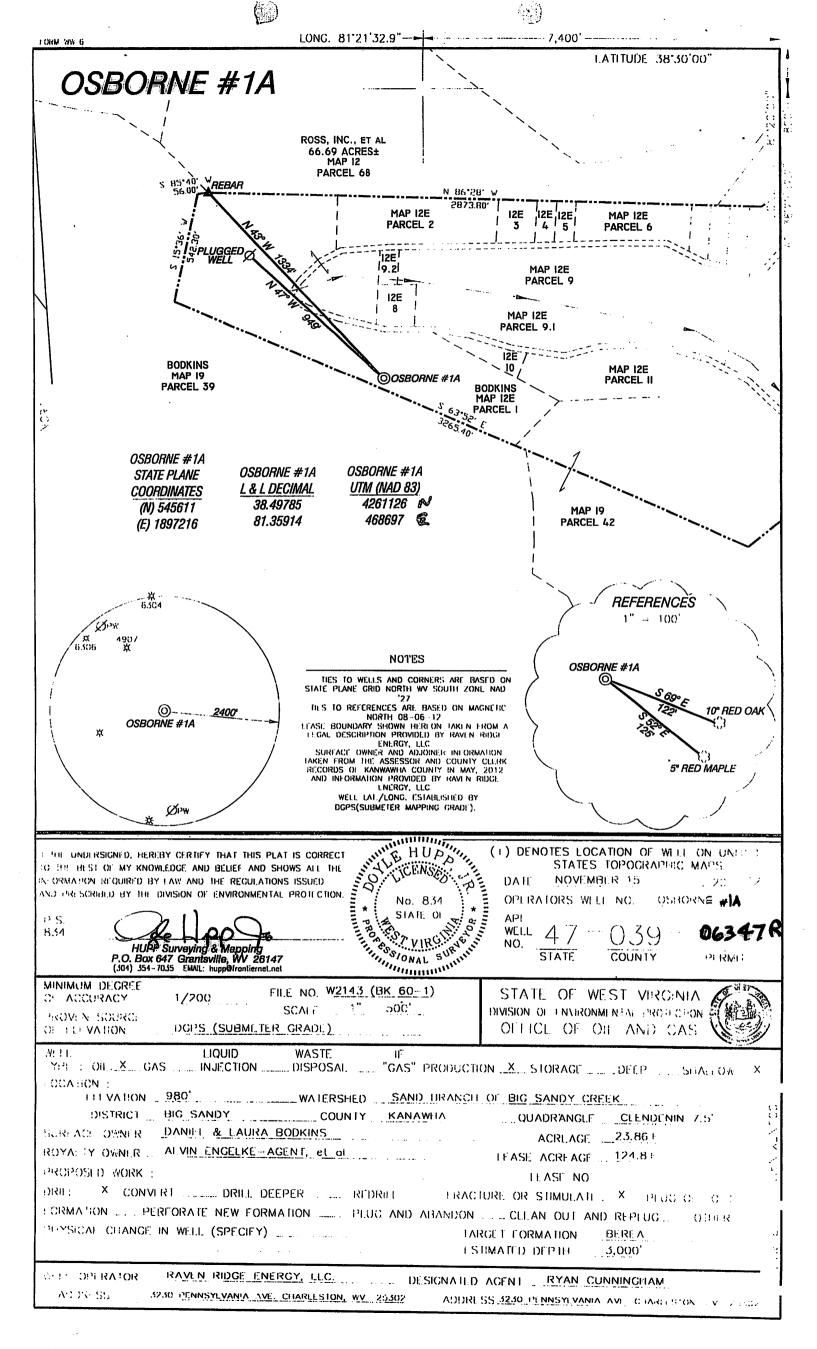
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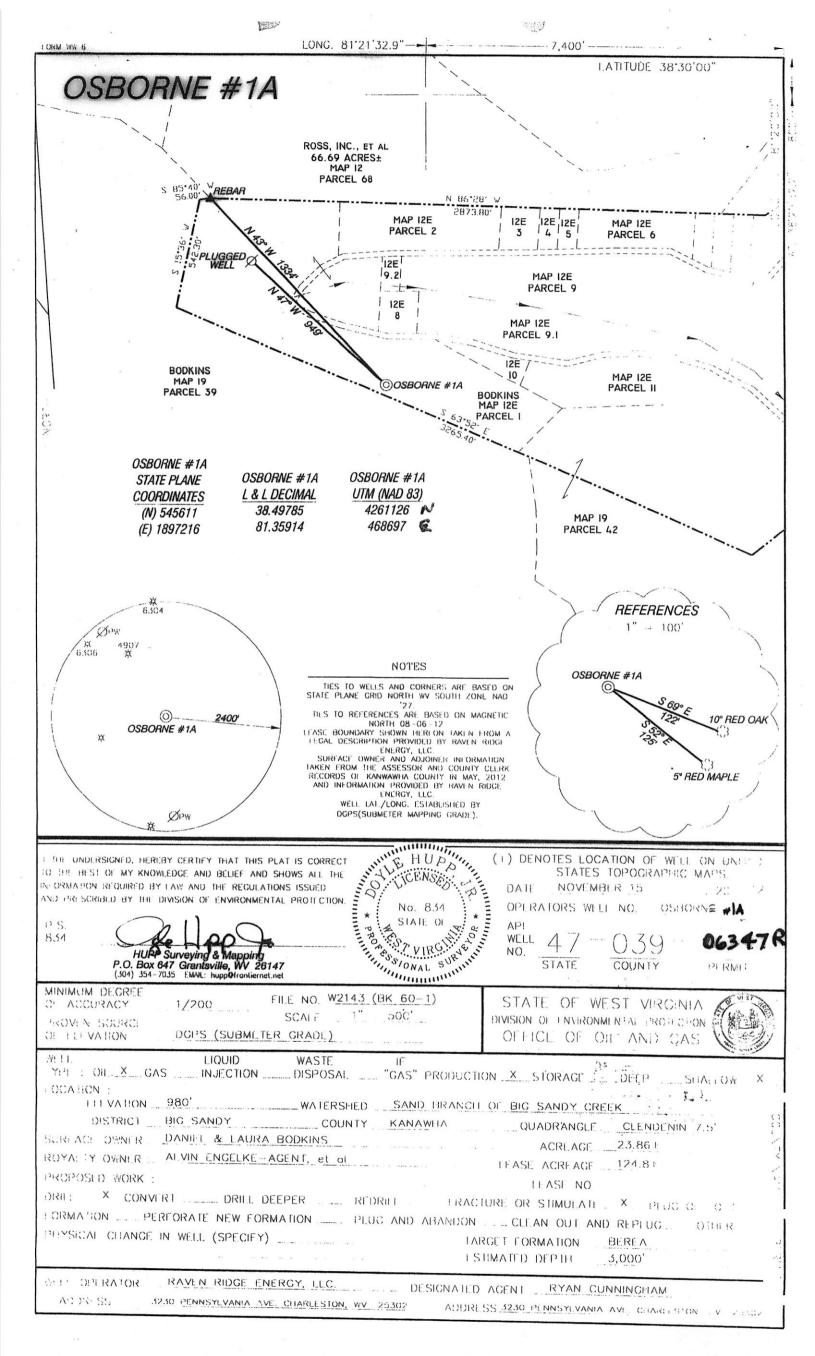
Office of Oil and Gas "The property for 3 for the Oil and WA

MOV 2 5 2013

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DIRECTION OF PERFORATE NEW FORMATION PEUC AND ABANDON LCLLAN OUT AND REPEUC DITER

IARGET FORMATION

I SUMATED DEPTH

... DESIGNATED AGENT RYAN CUNNINGHAM

BEREA

ADDRESS 3230 PENNSYLVANIA AV. CHARLES ON V. CHARLES ON V.

SHOWS UND CHANGE IN WILL (SPECIFY)

OFFICE DATERATOR :

RAVEN RIDGE ENERGY, LLC.

TARG PENNSYLVANIA AVE. CHARLESTON, WY NEEDS

Office of Oil and Case Properties

WW-2B1 (5-12)

| Well No. OSBORNE 14 | Well | No. | OSBORNE | 1A |
|---------------------|------|-----|---------|----|
|---------------------|------|-----|---------|----|

West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name

STRUM ENVIRONMENTAL

Sampling Contractor

HUPP SURVEYING

Well Operator RAVE RIDGE ENERGY, LLC

Address

3230 PENNSYLVANIA AVENUE

CHARLESTON, WV 25302

Telephone

(304) 344-9291

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

already performed.

Received

租火 25

Nottingham, Justin E

From:

Danielle Boggs <dani.bays@cunninghamenergy.com>

Sent:

Monday, November 25, 2013 1:52 PM

To:

Nottingham, Justin E

Subject:

Osborne 1A / 47-3906347

Attachments:

SKMBT C35131125143200.pdf

Please see attached the application to re-permit the Osborne 1A (API 47-3906347). I am also forwarding the check for the fee for both this well and the Osborne 2A (API 47-390638) and mylars today via regular mail.

Please let me know if you need anything further.

Thank you,
Danielle N. Boggs
Cumingham Energy
3230 Pennsylvania Ave
Charleston, WV 25302
Direct: (304) 344-9291
Cell: (304) 553-5850
Fax: (304) 344-9290

www.cunninghamenergy.com



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Received

Office of Oil and Gas Protection

Office of Oil and Gas Protection

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